

e) a mixing chamber disposed between said orifice holder and said flame ports whereby gas emitted by said orifice is mixed with primary air admitted through said primary air opening.

12. The gas burner of claim 11, wherein said mixing chamber includes a bluff body positioned such that gas emitted by the orifice flows impinges on said bluff body.

13. The gas burner of claim 12, wherein said bluff body is formed at least partially by a dimple formed near said inlet end that projects into said mixing chamber.

14. A gas burner comprising:

a) an elongate, generally cylindrical sheet metal body having an inlet end and a closed distal end and a tubular segment extending between said ends;

b) said inlet end including an integrally formed gas orifice holder, said holder mounting a gas orifice element;

c) said inlet end further formed to define at least one primary air opening arranged to admit primary air into said tubular segment;

d) a plurality of flame ports defined in said tubular segment downstream from said inlet end, at least some of said flame ports defined by openings, each opening having two side edges and a front edge and a tab bent inwardly, such that an effective size of said flame port is determined by the degree to which said tab is bent inwardly; and,

e) a mixing chamber disposed between said orifice holder and said flame ports whereby gas emitted by said orifice is mixed with primary air admitted through said primary air opening.

15. The gas burner of claim 14, further comprising a first set of flame ports, each of said flame ports of said first set defined by two side edges, a front edge and a tab bent inwardly at a first predetermined orientation, and a second set of flame ports, each flame port of said second set defined by two side edges, a front edge and an associated tab bent inwardly at an orientation different from that of the orientation of the tabs of said first set.

16. The gas burner of claim 14 wherein said primary air opening is provided by an end opening integrally formed in said gas orifice holder.

17. The gas burner of claim 16 further including a second primary air opening that is provided by a second end opening integrally formed in said gas orifice holder.

18. The gas burner of claim 14 wherein said one primary air opening is located downstream of said gas orifice element.

19. The gas burner of claim 18 further comprising a second primary air opening that is located downstream of said gas orifice element.

20. A gas burner comprising:

a) an elongate, generally cylindrical sheet metal body having an inlet end and a closed distal end and a tubular segment extending between said ends;

b) said inlet end including crimped structure that defines an integrally formed gas orifice holder, said holder mounting a gas orifice element;

c) said crimped structure further defining at least one primary air opening arranged to admit primary air into said tubular segment;

d) a plurality of flame ports defined in said tubular segment downstream from said inlet end, at least some of said flame ports defined by openings, each opening having two side edges and a front edge and a tab bent inwardly, such that an effective size of said flame port is determined by the degree to which said tab is bent inwardly; and,

e) a mixing chamber disposed between said orifice holder and said flame ports whereby gas emitted by said orifice is mixed with primary air admitted through said primary air opening.

21. The gas burner of claim 20 wherein said degree to which said tab is bent inwardly is determined by a distance as measured orthogonally between a lower edge of said tab and an adjacent tab of an adjacent flame port.

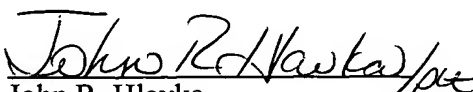
REMARKS

Attached hereto is a marked-up version of the changes made to the application by this Amendment.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 23-0630 for any additional fees required under 37 C.F.R. § 1.16 or 1.17; particularly, extension of time fees.

Respectfully submitted,

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Attachment: Version with Markings to Show Changes Made